Government of
Saskatchewan

Annual Report 1984—85

Saskatchewan Labour

Provincial Fire Commissioner
Technical Safety
Services Branch

86-01682/

Saskatchewan
Labour

Annual Report of the Fire Commissioner

For the Fiscal Year ended
March 31, 1985

Published by Authority of
The Hon. Lorne McLaren
Minister of Labour

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Regina, June 30, 1985

Sir:

I have the honour to present the Annual Report of the Fire Commissioner for the twelve months ending March 31, 1985.

Lorne McLaren
Minister of Labour

Regina, June 30, 1985

To the Honourable Lorne McLaren
Minister of Labour

Sir:

I have the honour to present herewith the annual report of the Fire Commissioner for the twelve months ended March 31, 1985.

Respectfully submitted
M. G. G. Fisher
Fire Commissioner

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Summary

In the report which follows, fire losses in Saskatchewan for the calendar year are included both in summary form and in greater detail. Other data included in this report are presented on a fiscal-year basis.

Increase in Fire Losses

Fire losses in Saskatchewan in the year under review show a slight increase from the previous year. The property loss for 1984 was $35,469,311 as compared with $31,920,418 in 1983. There was a total of 18 fires in which the loss was $250,000 and over. The combined loss of all 18 fires totalled $14,081,096.

A total of 2,789 fires was reported in 1984. Electricity was the largest single cause of fire, accounting for 26.5 percent of the total number of fires or 738 fires. Other leading causes were: coal or wood (16.1 percent — 448 fires), flammable liquids (14.8 percent — 413 fires), and smokers' materials (8.6 percent — 240 fires).

Most Fires Occur in Homes

Fires in homes continued to be highest in number. In 1984, 34.4 percent of all fires reported were in homes (a total of 958 fires with property loss of $11,450,766).

The number of lives lost in fires in Saskatchewan decreased in 1984 from the previous year. In 1984, 26 persons lost their lives (12 men, six women and eight children) as compared with 30 persons in 1983.

During the fiscal year 1984-85, provincial fire inspectors conducted routine inspections of all public and mercantile buildings in 157 towns, villages and hamlets. Special inspections were also carried out in cities and in industrial and farm properties.

The data included in this report have been compiled from information received from provincial fire inspectors, urban and rural fire chiefs, police forces, coroners, insurance companies and adjusters, secretary-treasurers of rural municipalities and the news media.

Fire Commissioner's Unit

The Fire Commissioner's Unit enforces *The Fire Prevention Act* and regulations thereunder with respect to:

- apartment buildings;
- educational facilities;
- hospitals;
- hotels;
- installation of automatic sprinkler systems;
- fire hose threads;
- the approval, installation and maintenance of oil burners and oil-burning equipment and appliances using flammable liquids as fuel;
- storage and handling of flammable liquids.

The unit also inspects and carries out responsibilities with regard to regulations adopted under *The Housing and Special-care Homes Act* with respect to fire safety in special-care homes and homes for the aged.

The functions of the unit include: a programme of inspection and licensing; preparation of educational and practical programmes in fire prevention and fire protection; training of volunteer firefighters; fire and arson investigation; approval of plans and specifications; and the recording of information on fires in the province. The unit also provides consulting services on fire safety matters to other government departments, municipalities, organizations, industry, business, committees and individuals.

For the purpose of fire inspection, the province is divided into nine districts, with fire prevention officers based in North Battleford, Prince Albert, Regina, Saskatoon, Swift Current and Yorkton.

The authorized staff of the Fire Commissioner's Unit on March 31, 1985 is shown below by category.

Category	Approved number of positions
All categories	**24**
Fire Commissioner	1
Deputy Fire Commissioner	1
Architect	1
Senior Fire Prevention Officer	1
Fire Prevention Officers	15
Clerical	5

Associations and Committees

During 1984-85, the Fire Commissioner was a member of the Association of Canadian Fire Marshals and Fire Commissioners; The Canadian Association of Fire Chiefs; and the National Fire Protection Association; the Saskatchewan Association of Fire Chiefs; and the Fire Safety Councils of the Canadian Standards Association, Underwriters' Laboratories of Canada, Warnock Hersey and Canadian Gas Standards Advisory Committee.

Conferences

During the year 1984-85, the following conferences or meetings were attended by the Fire Commissioner: the National Fire Protection Association Convention in San Diego, California in June, and the Saskatchewan Association of Fire Chiefs in Saskatoon in June. The Deputy Fire Commissioner attended the Association of Fire Marshals and Fire Commissioner's Annual Conference in Charlottetown, P.E.I. in July and Saskatchewan Association of Fire Chiefs in June.

Training and Upgrading

In May of 1984, one fire prevention officer attended the Saskatchewan Fire Investigation Course in Regina sponsored by the Saskatchewan Police College and the Fire Commissioner's Unit. The Fire Commissioner and Deputy Fire Commissioner attended an Arson Investigation Course in Regina sponsored by the Royal Canadian Mounted Police and Saskatchewan Government Insurance. One fire prevention officer attended the International Association of Arson Investigators Course and Seminar in Vancouver in March of 1984.

Inspection Programme

Fire prevention officers of the Fire Commissioner's Unit carried out an inspection programme in 1984-85 in various classes of buildings with the exception of dwellings, where inspections were made only as a result of a complaint or obvious hazard. Inspection of dwellings by local authorities is encouraged because of the large inspection staff which would otherwise be required for this activity. Hospitals, institutional buildings, schools and other places of public assembly were inspected in the interest of fire safety. Government-owned buildings were also inspected for fire safety and evacuation procedures.

Routine inspections were conducted during the fiscal year in 157 towns, villages and hamlets.

In large urban municipalities, paid fire departments have authority under *The Fire Prevention Act* to inspect and enforce provincial regulations. Provincial attention is only given in special circumstances or appeals.

During the year, fire prevention officers made 3,815 inspections. This does not include oil burner inspections, which are mentioned elsewhere in this report. Of this number, 642 were special inspections and 519 were re-inspection follow-ups on previous orders. A total of 735 orders to remedy certain conditions within specified periods of time was issued. Inspections and improvement orders issued are shown in Table 1, according to class of property inspected.

Education Services

The Fire Commissioner's Unit continued to advise municipal councils and fire departments with respect to fire protection requirements. A total of 116 fire department surveys was made during the year. Inspectors advised institutions, hospitals and hotels on fire emergency programmes, fire exit drills and other safety matters. In addition, inspectors attended 85 special meetings with fire chiefs, local authorities and other persons concerned with fire prevention.

Fire Prevention Week (October 7 - 13) was emphasized by means of lectures to school children; distribution of films, special fire prevention literature, and news releases; and special messages from both the Minister-in-charge of *The Fire Prevention Act* and the Fire Commissioner.

As part of a continuing effort to bring fire prevention to the attention of young people, the Fire Commissioner's Unit again sponsored the Annual Fire Prevention Poster Competition for public and high schools. As in previous years, the competition was open for grades 1 to 12 and 30 prizes were awarded. The number of entrants increased from 4,200 in 1983-84 to 4,800 in 1984-85, a total of 600. Winners of the contest were notified of their award by the Minister-in-charge of *The Fire Prevention Act* and all other entrants were notified by the Fire Commissioner's Unit. The awards were made public through the media. The interest shown in fire prevention by teachers and students was most gratifying.

Films

During the year under review, fire prevention films owned by the Fire Commissioner's Unit were widely used throughout the province by arrangement with SaskMedia. Fire prevention officers also showed films in schools and to various organizations.

Firefighters' Training

During the fiscal year 1984-85 training schools for volunteer firefighters were conducted in 48 towns and villages as shown in Table 7. Of the 1,198 registrants in these schools, 885 student firemen completed the training courses and received certificates. The number of schools conducted and persons registered since 1975-76 is shown in Table 8.

During the fiscal year, fire prevention officers lectured and gave tabletop fire demonstrations at 31 fire prevention meetings in hospitals, schools, hotel association workshops, and other similar events; and to R.C.M.P. recruit training classes at one fire safety course. Two fire extinguisher classes and three Dangerous Goods Seminars were also held.

Firefighting Equipment in Saskatchewan

There are now over 95 rural fire protection associations in operation, protecting rural homes or a combination of rural and urban homes in smaller centres. Most of the associations cover districts, financed on a taxation basis, and they protect from one to three rural municipalities. They include some towns, villages and hamlets within their particular rural municipalities. Several rural fire departments are operating on a co-operative basis and by subscription.

Provincial legislation provides for agreements to share the cost of firefighting equipment under the various municipal Acts, and provides for taxation over all or part of any municipality for fire protection. There are over 416 pumping units in the province, each with a capacity of 420 gallons or more per minute.

Plans and Specifications

During the fiscal year ended March 31, 1985, 1,449 plans and specifications of new buildings or additions to existing buildings were reviewed. Of these, 539 were approved with minor provisions and 783 were approved subject to alterations. Approval was not given in 127 examinations, either because of requirements for major re-design or because the review was only advisory. The above figures do not include sketches and drawings which were reviewed in consultation with architects and other interested persons previous to the preparation of preliminary and/or final drawings.

As in previous years, plans required to be submitted were examined for compliance with the Flammable Liquids Regulations, the Hotel Regulations, the Hospital Fire Regulations, the Regulations Governing Fire Safety in Educational Buildings, the Regulations Governing Installation of Automatic Sprinkler Systems and pertinent sections of the regulations under *The Housing and Special-care Homes Act*.

In examining plans submitted for government buildings and plans voluntarily submitted for structures such as churches, lodge rooms, and dry cleaning plants, the Fire Commissioner's Unit continued to apply the National Building Code of Canada as widely as possible. Codes of the National Fire Protection Association and other standards of good practice are also used for this purpose.

Table 9 shows the number of plans and specifications reviewed by disposition since 1975-76.

Fire Record

Under the provisions of *The Fire Prevention Act*, the Fire Commissioner is required to maintain a record of fires occurring in the province and to include facts relating to origin and circumstances as they have been determined by the Fire Commissioner's Unit investigation and by reports of adjusters and police.

Fire Investigation

During 1984-85, Fire Crime Reports were submitted for 230 investigations. Such reports are submitted by police and Fire Commissioner's Unit staff. Fire Commissioner's Unit staff participated in 132 investigations including cases in which arson was suspected, and cases in which, for fire prevention reasons, it would be in the public's interest to determine the cause of the fire. While fire prevention officers made a number of investigations unassisted, in many cases they assisted law enforcement officers in determining the cause of the fire whether accidental or intentional in origin. The results and disposition of the Fire Crime Report investigations are illustrated in Tables 10, 11 and 12. Table 13 indicates the number of investigations of this category made since 1975-76. It should be noted that all fires reported are investigated for cause, origin and circumstance by the Local Assistant to the Fire Commissioner (Secretary-treasurers, Fire Chief and his staff), police, insurance agencies, special investigation units, the Fire Commissioner's staff or a combination of these forces. One inquiry was undertaken in 1984-85.

Table 1

Inspections and Improvement Orders by Property Classification, Saskatchewan, 1984-85

Class of property	Inspections (calls)*	Improvement orders issued
Total	**3,815**	**735**
Assembly	**1,585**	**379**
Agriplexes	3	—
Amusement centres (arcades)	1	—
Ball parks	2	—
Bowling alleys	8	1
Change houses	4	—
Churches	306	29
Clubs	12	1
Court rooms	2	—
Day care centres	13	1
Funeral homes	1	—
Halls	298	65
Libraries	15	1
Licensed beverage rooms	6	3
Museums	10	2
Pool rooms	5	1
Restaurants (cafes, licensed rooms)	97	8
Rinks	344	101
Senior citizen centres	81	6
Schools (sheltered workshops, activity centres)	360	158
Swimming pools	8	—
Theatres	9	2
Undertaking premises	—	—
Institutional	**163**	**43**
Correction centres	6	1
Hospitals	100	24
Jails	1	—
Nursing Homes	56	18
Residential	**685**	**222**
Apartments	176	91
Approved homes	68	—
Convents, monasteries	3	—
Dormitories	47	5
Group homes	8	—
Houses	22	—
Hotels	240	112
Lodging houses	5	1
Mobile homes	3	—
Motels	67	13
Summer camp buildings	46	—

Table 1 (continued)

Inspections and Improvement Orders by Property Classification, Saskatchewan, 1984-85

Class of property	Inspections (calls)*	Improvement orders issued
Business	**307**	**10**
Banks (credit unions)	14	—
Barber & hairdressing shops	7	—
Clinics (medical & veterinary)	6	1
Health spas	—	—
Laundromats & drycleaners	10	1
Offices	268	6
Radio stations	2	2
Mercantile	**248**	**2**
Car washes	3	—
Department stores	1	1
Exhibition halls	—	—
Oil field supplies	2	—
Shops	1	—
Stores	212	1
Supermarkets	29	—
Industrial	**827**	**79**
Above & underground tanks	92	20
Aircraft hangers	2	—
Auto body shops	17	—
Bakeries	4	1
Bulk oil plants (propane)	157	39
Cold storage plants	1	—
Concrete plants	1	—
Creameries & dairies	—	—
Factories	15	1
Fertilizer buildings	1	—
Fire stations	63	1
Hatcheries	2	—
Lumber yards	16	—
Machine shops (metal, welding)	23	—
Meat packers	2	—
Mills	4	—
Plumbing & heating shops	7	—
Power houses	2	—
Printing shops	3	—
Pump houses	17	—
Repair garages (implements)	155	7
Service stations	82	7
Storage garages & rooms	4	—
Upholstery shops	2	—
Warehouses (storage sheds)	124	3
Water treatment plants	24	—
Well drilling	—	—
Woodworking factories (shops)	—	—
Workshops	7	—

* Includes 642 special inspections and 519 re-inspections.

Table 2

Inspections and Improvement Orders Issued, Saskatchewan, 1975-76 — 1984-85

Year	Inspections (calls)	Improvement orders issued
1975-76	10,981	1,539
1976-77	8,619	1,015
1977-78	3,987	487
1978-79	5,824	764
1979-80	5,285	711
1980-81	4,076	626
1981-82	3,603	650
1982-83	6,028	907
1983-84	5,884	757
1984-85	3,815	735

Table 3

Inspections by Property Classification, Saskatchewan, 1975-76 — 1984-85

Year	Total*	Residential buildings	Commercial property	Institutional and assembly buildings	Manufacturing establishments	Other bldgs.
1975-76	10,981	955	5,800	3,707	54	465
1976-77	8,619	959	4,221	2,971	53	415
1977-78	3,987	458	1,821	1,521	9	178
1978-79	5,824	574	2,856	2,016	44	334
1979-80	5,285	529	2,485	2,004	23	244
1980-81	4,076	409	1,991	1,554	14	188
1981-82	3,603	450	1,607	1,349	13	184
1982-83	6,028	681	2,845	2,137	29	336
		Assembly	Inst'nl	Residential Bus.	Mercantile	Industrial
1983-84	5,884	2,056	176	654 822	627	1,549
1984-85	3,815	1,585	163	685 307	248	827

* Includes special inspections and re-inspections to ascertain compliance with improvement orders.

Table 4

Improvement Orders Issued, by Property Classification, Saskatchewan, 1975-76 — 1984-85

Year	Total*	Residential buildings	Commercial property	Institutional and assembly buildings	Manufacturing establishments	Other bldgs.
1975-76	1,533	265	286	938	6	44
1976-77	1,015	185	207	570	2	51
1977-78	487	78	80	312	1	16
1978-79	764	133	117	461	1	52
1979-80	711	117	118	447	1	28
1980-81	626	115	132	360	—	19
1981-82	650	144	120	353	1	32
1982-83	907	246	126	483	4	48

Year	Total*	Assembly	Inst'nl	Residential	Bus.	Mercantile	Industrial
1983-84	757	403	38	157	6	5	148
1984-85	735	379	43	222	10	2	79

* Includes special inspections and re-inspections to ascertain compliance with improvement orders.

Table 5

Selected Activities in Fire Prevention Education, Saskatchewan, 1984-85

Selected Activities	Number of meetings	Attendance
Public meetings	2	56
School lectures	135	18,946
Other lectures and demonstrations	55	1,456
Film showings	162	16,900
Fire department conferences	58	338
Municipal council conferences	5	17
Meetings with school boards	12	29
Meetings with hospital boards	6	16
Meetings with fire chiefs	13	18
Court cases	12	—
School fire drills	51	8,468
Building/design consultants	124	133

Note: Attendance figures are not recorded for all activities.

Table 6

Selected Activities in Fire Prevention, Saskatchewan, 1975-76 — 1984-85

Activity	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85
Public meetings ...	16	6	6	10	11	7	4	4	21	2
School lectures	122	68	81	39	117	80	46	200	160	135
Other lectures and demonstrations ...	13	25	5	8	46	11	12	3	33	55
Film showings*	100	65	82	65	132	80	74	260	195	162
Fire department conferences	45	46	15	17	31	33	18	30	39	58
Meetings with school boards	9	7	5	13	19	4	10	8	17	12
Meetings with hospital boards	4	1	—	5	—	5	1	7	3	6
Meetings with fire chiefs etc.	137	106	72	232	135	213	105	97	19	13
Hospital emergency training	11	3	1	2	4	5	—	3	—	1

* These figures refer only to film showings sponsored by the Fire Commissioner's Unit.
Note: Attendance figures are not recorded for all activities.

Table 7

Volunteer Firefighters' Training Schools, Saskatchewan, 1984-85

Location	Period
Kenaston	April 2, 3, 4, 1984
Outlook	April 9, 10, 11, 1984
Springwater	April 16, 17, 18, 1984
Wilkie	April 24, 25, 26, 1984
Unity	April 26, 1984
Lashburn	April 30, May 1, 2, 1984
Allan	May 7, 8, 9, 1984
Sunset Estates (Saskatoon rural)	May 22, 23, 24, 1984
Yellow Grass	May 22, 23, 24, 1984
Langham	May 28, 29, 30, 1984
Blaine Lake	May 28, 29, 30, 1984
Aylsham	June 4, 5, 6, 1984
Foam Lake	June 4, 5, 6, 1984
Turnor Lake	June 18, 19, 20, 1984
Debden	June 18, 19, 20, 1984
Birch Hills	June 25, 26, 27, 1984
Zenon Park	July 3, 4, 5, 1984
Ogema	July 3, 4, 5, 1984
Porcupine Plain	July 9, 10, 11, 1984
Tantallon	July 9, 10, 11, 1984
Gainsborough	July 16, 17, 18, 1984
Ebenezer	July 16, 17, 18, 1984
Grayson	July 23, 24, 25, 1984
Langenburg	July 23, 24, 25, 1984
Lemberg	July 30, 31, August 1, 1984
Meota	August 7, 8, 9, 1984
Lancer	August 13, 14, 15, 1984
Hazlet	August 13, 14, 15, 1984
Carlyle	August 20, 21, 22, 1984
Consul	August 20, 21, 22, 1984
Chaplin	August 27, 28, 29, 1984
Coronach	August 27, 28, 29, 1984
Assiniboia	September 4, 5, 1984
Melfort	September 10, 11, 12, 1984
Wolseley	September 17, 18, 19, 1984
Whitewood	September 24, 25, 26, 1984
Riceton	October 1, 2, 3, 1984
Montmartre	October 9, 10, 11, 1984
Lucky Lake	October 15, 16, 17, 1984
Kenosee Moose Mountain Park	October 22, 23, 1984
Pilot Butte	October 29, 30, November 8, 1984
Pense	November 5, 6, 7, 1984
Eyebrow	January 7, 8, 9, 1985
Lanigan	February 4, 5, 6, 1985
Lintlaw	February 18, 1985
Liberty	February 21, 1985
Assiniboia	February 25, 26, 27, 1985

Table 8

Volunteer Firefighters' Training Schools, Saskatchewan, 1975-76 — 1984-85

Year	Number of training schools conducted	Number of persons registered
1975-76	27	633
1976-77	30	889
1977-78	31	2,457
1978-79	28	2,564
1979-80	51	3,319
1980-81	49	3,230
1981-82	27	2,039
1982-83	33	2,046
1983-84	31	2,245
1984-85	47	1,198

Table 9

Plans and Specifications of New Buildings Reviewed, by Disposition, Saskatchewan, 1975-76 — 1984-85

Year	Total	Approved	Approved subject to alterations	Rejected or pending
1975-76	862	263	388	211
1976-77	1,041	234	582	225
1977-78	1,592	495	601	496
1978-79	1,531	329	948	254
1979-80	1,439	547	654	238
1980-81	1,356	382	771	203
1981-82	1,254	333	747	174
1982-83	1,206	407	675	124
1983-84	1,406	505	754	147
1984-85	1,449	539	783	127

Table 10

Investigation of Fires (Suspicious Circumstances), by Disposition, Saskatchewan, 1984

Disposition	Number
Total Fire Crime Reports submitted	**230**
Suspect segments listed	298
Unfounded arson investigations	90
Persons suspected/concluded	50
Charges laid	13
Fires still under investigation	—
Investigations persons unknown	94
Undetermined	5
Investigations status unknown	—

Table 11

Investigation of Fires, Charges Laid, Saskatchewan, 1984

		Adult		Juvenile	
	Total	Male	Female	Male	Female
Total offences/charge laid	**13**	**9**	**2**	**2**	**—**
Cleared otherwise	1	—	—	1	—
Section 389(1)	6	4	2	—	—
Section 389(2)	—	—	—	—	—
Section 390	2	1	—	1	—
Section 392(1)	—	—	—	—	—
Section 306	—	—	—	—	—
Section 387	—	—	—	—	—
Section 388	—	—	—	—	—
Section 421	—	—	—	—	—
Others	4	4	—	—	—
Invalid	—	—	—	—	—

Note: The sections referred to above correspond to those within the *Criminal Code*.

Table 12

Investigation of Fires, Conclusion of Charges Laid, Saskatchewan, 1984

	Total	Adult		Juvenile	
		Male	Female	Male	Female
Total offences/charge laid	**13**	**9**	**2**	**2**	**—**
Conclusion of charges					
Pending	5	3	2	—	—
Withdrawn	—	—	—	—	—
Stay of proceedings	1	1	—	—	—
Committed to mental institute	—	—	—	—	—
Convicted	6	5	—	1	—
Dismissed	—	—	—	—	—
Invalid	1	—	—	1	—

Table 13

Number of Fire Investigations, Fire Crimes Suspected, Saskatchewan, 1975-76 — 1984

Year	Number
1975-76	72
1976-77	106
1977-78	89
1978-79	95
1979	89
1980	148
1981	224
1982	222
1983	234
1984	230

Table 14

Fire Loss Record in Urban Municipalities (Population over 1,000), Saskatchewan, 1984

Urban municipality	Population*	Property loss†	Number of fires	Per capita loss
Total	**572,414**	**$14,783,564**	**1,321**	**$25.83**
Assiniboia	2,924	49,318	8	16.87
Battleford	3,565	1,302	6	0.37
Biggar	2,561	9,626	10	3.76
Canora	2,667	1,781	2	0.67
Carlyle	1,074	—	—	—
Carnduff	1,043	—	—	—
Carrot River	1,169	294	2	0.25
Coronach	1,032	1,302	2	1.26
Creighton	1,636	45,627	4	27.89
Dalmeny	1,064	55,000	1	51.69
Davidson	1,166	15,976	3	13.70
Esterhazy	3,065	12,701	4	4.14
Estevan	9,174	1,554,932	15	169.49
Eston	1,413	1,200	1	0.85
Foam Lake	1,452	1,796,945	7	1,237.57
Fort Qu'Appelle	1,827	3,300	2	1.81
Gravelbourg	1,338	17,480	3	13.06
Grenfell	1,307	1,020	1	0.78
Gull Lake	1,095	8,392	4	7.66
Herbert	1,019	1,124	1	1.10
Hudson Bay	2,361	152,716	11	64.68
Humboldt	4,705	69,832	9	14.84
Indian Head	1,889	128,601	4	68.08
Kamsack	2,688	97,501	6	36.27
Kelvington	1,054	20,000	1	18.98
Kerrobert	1,141	—	—	—
Kindersley	3,969	92,282	13	23.25
Kipling	1,016	—	—	—
Langenburg	1,324	15,000	1	11.33
Langham	1,151	—	—	—
Lanigan	1,732	35,202	3	20.32
La Ronge	2,579	46,246	10	17.93
Leader	1,108	—	—	—
Lloydminster‡	6,034	242,430	23	40.18
Lumsden	1,303	—	—	—
Maidstone	1,001	—	—	—
Maple Creek	2,470	25,000	1	10.12
Martensville	1,966	3,783	4	1.92

Table 14 (continued)

Fire Loss Record in Urban Municipalities (Population over 1,000), Saskatchewan, 1984

Urban municipality	Population*	Property loss†	Number of fires	Per capita loss
Meadow Lake	3,857	223,786	17	$58.02
Melfort	6,010	66,696	8	11.10
Melville	5,092	21,000	1	4.12
Moose Jaw	33,941	365,513	73	10.77
Moosomin	2,579	10,861	4	4.21
Nipawin	4,376	33,943	15	7.76
North Battleford	14,030	310,573	35	22.14
Outlook	1,976	18,605	4	9.42
Oxbow	1,191	—	—	—
Pilot Butte	1,255	173,000	3	137.85
Preeceville	1,243	6,717	4	5.40
Prince Albert	31,380	838,778	97	26.73
Radville	1,012	1,518	2	1.50
Regina	162,984	2,692,097	466	16.52
Rosetown	2,664	4,421	4	1.66
Rosthern	1,609	119,005	4	73.96
Saskatoon	154,210	2,193,865	318	14.23
Shaunavon	2,112	3,002	2	1.42
Shellbrook	1,228	1,612	4	1.31
Swift Current	14,747	137,404	24	9.32
Tisdale	3,107	123,259	9	39.67
Unity	2,408	101,333	7	42.08
Uranium City	2,748	—	—	—
Wadena	1,495	1,000	1	0.67
Wakaw	1,030	10,305	4	10.00
Warman	2,076	8,900	2	4.29
Watrous	1,830	14,887	8	8.13
Weyburn	9,523	244,367	17	25.66
Whitewood	1,003	28,355	1	28.27
Wilkie	1,501	269,294	7	179.41
Wynyard	2,147	2,028,000	3	944.57
Yorkton	15,339	225,555	15	14.70

*Source: 1985 Municipal Directory
†Based on reports of fire insurance company adjusters and fire chiefs.
‡Includes only Saskatchewan portion of Lloydminister.

Table 15

Property Loss Due to Fire, Saskatchewan, 1975 — 1984

Year	Number of fires	Total loss reported	Dollar loss per fire
Ten-year average	**3,059**	$27,758,169	$ 8,960
1975	2,452	21,728,909	8,862
1976	2,892	13,392,033	4,631
1977	3,092	18,474,821	5,975
1978	2,650	18,126,409	6,840
1979	3,264	29,037,247	8,896
1980	3,722	48,932,799	13,147
1981	3,257	31,138,114	9,560
1982	3,209	29,361,627	9,150
1983	3,251	31,920,418	9,819
1984	2,789	35,469,311	12,718

Table 16

Fire Losses by Form of Heat of Ignition, Saskatchewan, 1984

Form of heat	Number of fires	Percent	Loss estimate	Percent
Total	**2,789**	**100.00%**	**$35,469,311**	**100.00%**
Spark, ember	170	6.10	3,120,138	8.80
Spark, electrical	581	20.83	4,086,352	11.52
Spark, static electrical	19	0.68	1,291,640	3.64
Direct flame	332	11.90	4,126,632	11.63
Friction heat	37	1.33	2,158,618	6.09
Hot object-direct heat	557	19.97	4,747,241	13.38
Spontaneous ignition	63	2.26	1,412,506	3.98
Heat from smokers' materials	182	6.53	1,258,263	3.55
Unclassified	35	1.25	312,684	0.88
Unknown	813	29.15	12,955,237	36.53

Note: The sums of individual items may not always equal the totals due to rounding.

Table 17

Fire Losses by Property Classification, Saskatchewan, 1984

Class of property	Number of fires	Percent	Dollar loss	Percent
Total, all property classifications	**2,789**	**100.00%**	**$38,536,295**	**100.00%**
Assembly				
Total	**30**	**1.08**	**3,179,042**	**8.25**
Theatre, studio, auditorium	1	0.04	20,000	0.05
Amusement, recreation place	4	0.14	567,729	1.47
School, college, university	8	0.29	572,629	1.49
Church, court room, mortuary	5	0.18	1,149,171	2.98
Social, sport club	2	0.07	7,055	0.02
Library, museum	—	—	—	—
Eating establishment	10	0.36	862,458	2.24
Passenger terminal station	—	—	—	—
Miscellaneous	—	—	—	—
Institutional				
Total	**16**	**0.57**	**544,198**	**1.41**
Prison, jail, reformatory	4	0.14	521,635	1.35
Home for aged	5	0.18	17,662	0.05
Childrens' hospital	—	—	—	—
Hospital, sanatorium, clinic	6	0.22	4,801	0.01
Miscellaneous	1	0.04	100	0.00
Residential				
Total	**958**	**34.35**	**12,912,129**	**33.51**
Family residence, duplex	727	26.07	9,707,054	25.19
Apartment, tenement, flat	86	3.08	1,343,162	3.49
Rooming, boarding house	2	0.07	20,050	0.05
Hotel, inn, lodge	21	0.75	577,514	1.50
Motor hotel, motel	7	0.25	16,101	0.04
Dormitory	8	0.29	27,511	0.07
Mobile home, trailer	99	3.55	1,070,055	2.78
Miscellaneous	8	0.29	150,682	0.39
Business and personal service				
Total	**10**	**0.36**	**678,052**	**1.76**
Office	8	0.29	615,749	1.60
Personal service	—	—	—	—
Miscellaneous	2	0.07	62,303	0.16
Mercantile				
Total	**67**	**2.40**	**2,612,101**	**6.78**
Food, beverage sales	14	0.50	614,799	1.60
Textiles, clothes sales	3	0.11	110,402	0.29
Furniture, appliance sales	7	0.25	570,701	1.48
Books, news, drug sales	3	0.11	1,500	0.00
Recreation, hobby supplies	4	0.14	70,755	0.18
Repair shop, dry cleaner	10	0.36	99,221	0.26
Motor vehicles, boats, sales & service	15	0.54	946,736	2.46
Department, variety store	4	0.14	136,394	0.35
Miscellaneous	7	0.25	61,593	0.16

Table 17 (continued)

Fire Losses by Property Classification, Saskatchewan, 1984

Class of property	Number of fires	Percent	Dollar loss	Percent
Industrial manufacturing				
Total	**28**	**1.00%**	**$5,256,740**	**13.64%**
Chemicals, paints, plastics	2	0.07	1,678,930	4.36
Wood, furniture, paper	2	0.07	7,364	0.02
Metal, electrical equipment	12	0.43	435,767	1.13
Food processing	9	0.32	2,134,679	5.54
Beverage, tobacco, soap	—	—	—	—
Footwear, clothes	—	—	—	—
Vehicles and related equipment	1	0.04	1,000,000	2.59
Miscellaneous	2	0.07	—	—
Industrial storage				
Total	**181**	**6.49**	**6,369,372**	**16.53**
Agricultural products	58	2.08	5,503,545	14.28
Textiles, fibres, clothing	1	0.04	300	0.00
Processed food, beverages	—	—	—	—
Flammable liquids, gases	1	0.04	1,700	0.00
Wood, furniture, paper	1	0.04	475	0.00
Chemicals, plastics, paints	—	—	—	—
Metal and electrical products	—	—	—	—
Vehicles	112	4.02	621,738	1.61
General item storage	8	0.29	241,614	0.63
Special property				
Total	**1,242**	**44.53**	**4,174,566**	**10.83**
Outdoor property	40	1.43	19,120	0.05
Pier, wharf	1	0.04	3,000	0.01
Under construction, vacant	22	0.79	206,933	0.54
Watercraft	3	0.11	13,600	0.04
Rail transport equipment	6	0.22	202,002	0.52
Ground transport vehicle	1,026	36.79	2,626,826	6.82
Aircraft	—	—	—	—
Special vehicles	138	4.95	1,060,892	2.75
Miscellaneous	6	0.22	42,193	0.11
Miscellaneous				
Total	**257**	**9.21**	**2,810,095**	**7.29**
Laboratories	1	0.04	—	—
Farm facility	120	4.30	1,211,309	3.14
Miscellaneous outbuildings	99	3.55	1,264,945	3.28
Utility	6	0.22	7,166	0.02
Cement, glass, pottery mfg.	3	0.11	64,051	0.17
Mining, quarrying	—	—	—	—
Communications, data processing	1	0.04	1	0.00
Miscellaneous	27	0.97	262,623	0.68

Note: The sums of individual items may not always equal the totals due to rounding.

Table 18

Fire Losses by Area of Origin of Fire, According to Type of Residence, Saskatchewan, 1984

Area of origin of fire	Number of fires	Dollar loss
All types of residences		
Total	**958**	**$11,450,766**
Means of egress	26	392,353
Assembly, sales area	120	1,129,308
Function area	517	5,749,590
Storage area	41	745,235
Service facility	58	558,884
Service and equipment area	59	901,548
Structural area	70	1,239,268
Vehicle area	13	61,498
Outside area or unknown	54	673,082
One and two family residences		
Total	**727**	**9,054,192**
Means of egress	17	333,862
Assembly, sales area	95	923,818
Function area	388	4,433,568
Storage area	31	702,619
Service facility	52	522,115
Service and equipment area	46	661,704
Structural area	57	839,457
Vehicle area	—	—
Outside area or unknown	41	637,049
Apartment		
Total	**86**	**878,162**
Means of egress	4	2,701
Assembly, sales area	14	46,827
Function area	57	747,899
Storage area	—	—
Service facility	5	34,969
Service and equipment area	2	16,300
Structural area	2	28,566
Vehicle area	—	—
Outside area or unknown	2	900

Table 18 (continued)

Fire Losses by Area of Origin of Fire, According to Type of Residence, Saskatchewan, 1984

Area of origin of fire	Number of fires	Dollar loss
Rooming or boarding house		
Total	**2**	**$ 20,050**
Means of egress	1	20,000
Assembly, sales area	—	—
Function area	1	50
Storage area	—	—
Service facility	—	—
Service and equipment area	—	—
Structural area	—	—
Vehicle area	—	—
Outside area or unknown	—	—
Hotel, inn or lodge		
Total	**21**	**427,514**
Means of egress	—	—
Assembly, sales area	1	1
Function area	12	83,806
Storage area	6	23,422
Service facility	—	—
Service and equipment area	1	100,000
Structural area	1	220,285
Vehicle area	—	—
Outside area or unknown	—	—
Motor hotel or motel		
Total	**7**	**16,100**
Means of egress	—	—
Assembly, sales area	1	—
Function area	5	16,100
Storage area	—	—
Service facility	—	—
Service and equipment area	—	—
Structural area	—	—
Vehicle area	—	—
Outside area or unknown	1	—

Table 18 (continued)

Fire Losses by Area of Origin of Fire, According to Type of Residence, Saskatchewan, 1984

Area of origin of fire	Number of fires	Dollar loss
Dormitory		
Total	**8**	**$ 27,511**
Means of egress	—	—
Assembly, sales area	—	—
Function area	6	21,288
Storage area	—	—
Service facility	—	—
Service and equipment area	1	1,800
Structural area	—	—
Vehicle area	—	—
Outside area or unknown	1	4,423
Mobile home or trailer		
Total	**99**	**996,555**
Means of egress	4	35,790
Assembly, sales area	9	158,662
Function area	44	417,989
Storage area	3	17,752
Service facility	—	—
Service and equipment area	10	123,544
Structural area	9	150,960
Vehicle area	13	61,498
Outside area or unknown	7	30,360
Miscellaneous		
Total	**8**	**30,682**
Means of egress	—	—
Assembly, sales area	—	—
Function area	4	28,890
Storage area	1	1,442
Service facility	—	—
Service and equipment area	—	—
Structural area	1	—
Vehicle area	—	—
Outside area or unknown	2	350

Table 19

Fire Losses by Act or Omission, According to Type of Residence, Saskatchewan, 1984

Act or omission	Number of fires	Dollar loss
All types of residences		
Total	**958**	**$11,450,766**
Arson and other fires	38	556,644
Misuse of heat	214	1,446,185
Misuse of materials	78	599,262
Malfunction	234	3,024,768
Deficiencies	40	553,823
Misuse of equipment	6	17,283
Human failings	137	845,735
Vehicle accidents	—	—
Unknown or miscellaneous	211	4,407,066
One and two family residences		
Total	**727**	**9,054,192**
Arson and other fires	25	451,842
Misuse of heat	154	951,434
Misuse of materials	62	511,341
Malfunction	175	2,019,737
Deficiencies	34	519,681
Misuse of equipment	4	16,653
Human failings	112	642,731
Vehicle accidents	—	—
Unknown or miscellaneous	161	3,940,773
Apartment		
Total	**86**	**878,162**
Arson and other fires	5	30,801
Misuse of heat	29	272,310
Misuse of materials	9	5,704
Malfunction	8	355,468
Deficiencies	3	32,269
Misuse of equipment	—	—
Human failings	15	128,298
Vehicle accidents	—	—
Unknown or miscellaneous	17	53,312

Table 19 (continued)

Fire Losses by Act or Omission, According to Type of Residence, Saskatchewan, 1984

Act or omission	Number of fires	Dollar loss
Rooming or boarding house		
Total	**2**	**$ 20,050**
Arson and other fires	—	—
Misuse of heat	1	50
Misuse of materials	—	—
Malfunction	—	—
Deficiencies	—	—
Misuse of equipment	—	—
Human failings	1	20,000
Vehicle accidents	—	—
Unknown or miscellaneous	—	—
Hotel, inn or lodge		
Total	**21**	**427,514**
Arson and other fires	3	27,001
Misuse of heat	9	354
Misuse of materials	—	—
Malfunction	3	223,586
Deficiencies	1	500
Misuse of equipment	—	—
Human failings	1	1
Vehicle accidents	—	—
Unknown or miscellaneous	4	176,072
Motor hotel or motel		
Total	**7**	**16,100**
Arson and other fires	1	—
Misuse of heat	2	—
Misuse of materials	—	—
Malfunction	2	—
Deficiencies	—	—
Misuse of equipment	1	100
Human failings	1	16,000
Vehicle accidents	—	—
Unknown or miscellaneous	—	—

Table 19 (continued)

Fire Losses by Act or Omission, According to Type of Residence, Saskatchewan, 1984

Act or omission	Number of fires	Dollar loss
Dormitory		
Total	**8**	**$ 27,511**
Arson and other fires	—	—
Misuse of heat	—	—
Misuse of materials	—	—
Malfunction	4	13,629
Deficiencies	—	—
Misuse of equipment	—	—
Human failings	2	7,659
Vehicle accidents	—	—
Unknown or miscellaneous	2	6,223
Mobile home or trailer		
Total	**99**	**996,555**
Arson and other fires	4	47,000
Misuse of heat	16	220,245
Misuse of materials	6	82,217
Malfunction	40	411,752
Deficiencies	2	1,373
Misuse of equipment	1	530
Human failings	4	5,215
Vehicle accidents	—	—
Unknown or miscellaneous	26	228,223
Miscellaneous		
Total	**8**	**30,682**
Arson and other fires	—	—
Misuse of heat	3	1,792
Misuse of materials	1	—
Malfunction	2	596
Deficiencies	—	—
Misuse of equipment	—	—
Human failings	1	25,831
Vehicle accidents	—	—
Unknown or miscellaneous	1	2,463

Table 20

Fire Losses by Source of Heat of Ignition, According to Type of Residence, Saskatchewan, 1984

Source of heat of ignition	Number of fires	Dollar loss
All types of residences		
Total	**958**	**$11,450,766**
Heating equipment	179	2,106,990
Cooking equipment	200	1,016,555
Smokers' materials	115	861,787
Electric distribution equipment	75	1,095,396
Electric appliances	39	738,364
Non-electric appliances	39	417,176
Open flames	116	988,416
Exposure	28	544,884
Unknown or miscellaneous	167	3,681,198
One and two family residences		
Total	**727**	**9,054,192**
Heating equipment	150	1,894,100
Cooking equipment	170	860,575
Smokers' materials	74	513,053
Electric distribution equipment	58	758,624
Electric appliances	28	321,892
Non-electric appliances	21	244,560
Open flames	85	717,098
Exposure	20	520,271
Unknown or miscellaneous	121	3,224,019
Apartment		
Total	**86**	**878,162**
Heating equipment	7	38,550
Cooking equipment	21	95,077
Smokers' materials	19	227,964
Electric distribution equipment	—	—
Electric appliances	4	338,385
Non-electric appliances	3	6,489
Open flames	15	118,285
Exposure	1	19,000
Unknown or miscellaneous	16	34,412

Table 20 (continued)

Fire Losses by Source of Heat of Iginition, According to Type of Residence, Saskatchewan, 1984

Source of heat of ignition	Number of fires	Dollar loss
Rooming or boarding house		
Total	**2**	**$ 20,050**
Heating equipment	—	—
Cooking equipment	—	—
Smokers' materials	2	20,050
Electric distribution equipment	—	—
Electric appliances	—	—
Non-electric appliances	—	—
Open flames	—	—
Exposure	—	—
Unknown or miscellaneous	—	—
Hotel, inn or lodge		
Total	**21**	**427,514**
Heating equipment	—	—
Cooking equipment	1	500
Smokers' materials	9	354
Electric distribution equipment	2	220,485
Electric appliances	2	17,500
Non-electric appliances	1	3,101
Open flames	2	2
Exposure	—	—
Unknown or miscellaneous	4	185,572
Motor hotel or motel		
Total	**7**	**16,100**
Heating equipment	—	—
Cooking equipment	—	—
Smokers' materials	3	16,000
Electric distribution equipment	1	100
Electric appliances	1	—
Non-electric appliances	1	—
Open flames	—	—
Exposure	—	—
Unknown or miscellaneous	1	—

Table 20 (continued)

Fire Losses by Source of Heat of Ignition, According to Type of Residence, Saskatchewan, 1984

Source of heat of ignition	Number of fires	Dollar loss
Dormitory		
Total	**8**	**$ 27,511**
Heating equipment	4	10,901
Cooking equipment	—	—
Smokers' materials	1	2,171
Electric distribution equipment	1	7,000
Electric appliances	—	—
Non-electric appliances	—	—
Open flames	2	7,439
Exposure	—	—
Unknown or miscellaneous	—	—
Mobile home or trailer		
Total	**99**	**996,555**
Heating equipment	16	163,439
Cooking equipment	5	33,626
Smokers' materials	7	82,195
Electric distribution equipment	13	109,187
Electric appliances	4	60,587
Non-electric appliances	13	163,026
Open flames	11	145,592
Exposure	7	5,613
Unknown or miscellaneous	23	233,290
Miscellaneous		
Total	**8**	**30,682**
Heating equipment	2	—
Cooking equipment	3	26,777
Smokers' materials	—	—
Electric distribution equipment	—	—
Electric appliances	—	—
Non-electric appliances	—	—
Open flames	1	—
Exposure	—	—
Unknown or miscellaneous	2	3,905

Table 21

Fire Losses by Material First Ignited, According to Type of Residence, Saskatchewan, 1984

Material first ignited	Number of fires	Dollar loss
All types of residences		
Total	**958**	**$11,450,766**
Structural	173	2,700,768
Furniture	150	946,026
Clothing or textiles	54	445,151
Wood products	88	910,723
Flammable liquids	155	1,056,843
Flammable gases	23	319,514
Chemicals	15	25,633
Agricultural	15	101,399
Unknown or miscellaneous	285	4,944,709
One and two family residences		
Total	**727**	**9,054,192**
Structural	133	1,945,808
Furniture	108	656,730
Clothing or textiles	37	343,927
Wood products	64	754,049
Flammable liquids	135	889,519
Flammable gases	14	83,681
Chemicals	12	20,212
Agricultural	11	95,557
Unknown or miscellaneous	213	4,264,709
Apartment		
Total	**86**	**878,162**
Structural	15	462,044
Furniture	26	189,652
Clothing or textiles	6	72,301
Wood products	10	57,288
Flammable liquids	9	9,381
Flammable gases	1	800
Chemicals	2	5,239
Agricultural	2	3,636
Unknown or miscellaneous	15	77,821

Table 21 (continued)

Fire Losses by Material First Ignited, According to Type of Residence, Saskatchewan, 1984

Material first ignited	Number of fires	Dollar loss
Rooming or boarding house		
Total	**2**	**$ 20,050**
Structural	—	—
Furniture	2	20,050
Clothing or textiles	—	—
Wood products	—	—
Flammable liquids	—	—
Flammable gases	—	—
Chemicals	—	—
Agricultural	—	—
Unknown or miscellaneous	—	—
Hotel, inn or lodge		
Total	**21**	**427,514**
Structural	1	500
Furniture	4	3
Clothing or textiles	5	3,453
Wood products	4	10,501
Flammable liquids	1	7,000
Flammable gases	1	220,285
Chemicals	—	—
Agricultural	—	—
Unknown or miscellaneous	5	185,772
Motor hotel or motel		
Total	**7**	**16,100**
Structural	—	—
Furniture	3	16,100
Clothing or textiles	1	—
Wood products	1	—
Flammable liquids	—	—
Flammable gases	—	—
Chemicals	—	—
Agricultural	—	—
Unknown or miscellaneous	2	—

Table 21 (continued)

Fire Losses by Material First Ignited, According to Type of Residence, Saskatchewan, 1984

Material first ignited	Number of fires	Dollar loss
Dormitory		
Total	**8**	**$ 27,511**
Structural	2	8,035
Furniture	1	2,171
Clothing or textiles	—	—
Wood products	1	1
Flammable liquids	—	—
Flammable gases	2	4,816
Chemicals	—	—
Agricultural	—	—
Unknown or miscellaneous	2	12,488
Mobile home or trailer		
Total	**99**	**996,555**
Structural	22	284,381
Furniture	5	61,320
Clothing or textiles	5	25,470
Wood products	7	88,884
Flammable liquids	9	125,112
Flammable gases	3	9,582
Chemicals	1	182
Agricultural	2	2,206
Unknown or miscellaneous	45	399,418
Miscellaneous		
Total	**8**	**30,682**
Structural	—	—
Furniture	1	—
Clothing or textiles	—	—
Wood products	1	—
Flammable liquids	1	25,831
Flammable gases	2	350
Chemicals	—	—
Agricultural	—	—
Unknown or miscellaneous	3	4,501

Table 22

Fire Losses by Form of Heat of Ignition, According to Type of Residence, Saskatchewan, 1984

Form of heat of ignition	Number of fires	Dollar loss
All types of residences		
Total	**958**	**$11,450,766**
Spark or ember	35	541,272
Electrical spark	119	1,771,995
Static electrical spark	5	16,548
Direct flame	153	1,438,585
Friction heat	3	13,943
Hot object	305	2,641,817
Spontaneous ignition	27	200,241
Heat-smokers' materials	127	774,753
Unknown or miscellaneous	184	4,051,612
One or two family residences		
Total	**727**	**9,054,192**
Spark or ember	31	537,428
Electrical spark	92	1,353,156
Static electrical spark	3	6,932
Direct flame	111	1,040,033
Friction heat	3	13,943
Hot object	254	1,915,430
Spontaneous ignition	21	127,607
Heat-smokers' materials	82	584,977
Unknown or miscellaneous	130	3,474,686
Apartment		
Total	**86**	**878,162**
Spark or ember	2	3,313
Electrical spark	4	18,155
Static electrical spark	1	9,566
Direct flame	18	212,784
Friction heat	—	—
Hot object	26	567,033
Spontaneous ignition	1	800
Heat-smokers' materials	21	41,175
Unknown or miscellaneous	13	25,336

Table 22 (continued)

Fire Losses by Form of Heat of Ignition, According to Type of Residence, Saskatchewan, 1984

Form of heat of ignition	Number of fires	Dollar loss
Rooming or boarding house		
Total	**2**	**$ 20,050**
Spark or ember	—	—
Electrical spark	—	—
Static electrical spark	—	—
Direct flame	—	—
Friction heat	—	—
Hot object	—	—
Spontaneous ignition	—	—
Heat-smokers' materials	2	20,050
Unknown or miscellaneous	—	—
Hotel, inn or lodge		
Total	**21**	**427,514**
Spark or ember	—	—
Electrical spark	3	223,586
Static electrical spark	—	—
Direct flame	—	—
Friction heat	—	—
Hot object	2	7,500
Spontaneous ignition	—	—
Heat-smokers' materials	11	356
Unknown or miscellaneous	5	196,072
Motor hotel or motel		
Total	**7**	**16,100**
Spark or ember	—	—
Electrical spark	—	—
Static electrical spark	—	—
Direct flame	—	—
Friction heat	—	—
Hot object	3	100
Spontaneous ignition	—	—
Heat-smokers' materials	3	16,000
Unknown or miscellaneous	1	—

Table 22 (continued)

Fire Losses by Form of Heat of Ignition, According to Type of Residence, Saskatchewan, 1984

Form of heat of ignition	Number of fires	Dollar loss
Dormitory		
Total	**8**	**$ 27,511**
Spark or ember	—	—
Electrical spark	2	7,001
Static electrical spark	—	—
Direct flame	2	7,439
Friction heat	—	—
Hot object	2	5,783
Spontaneous ignition	—	—
Heat-smokers' materials	—	—
Unknown or miscellaneous	2	7,288
Mobile home or trailer		
Total	**99**	**996,555**
Spark or ember	2	531
Electrical spark	18	170,097
Static electrical spark	1	50
Direct flame	19	178,329
Friction heat	—	—
Hot object	16	119,544
Spontaneous ignition	4	71,484
Heat-smokers' materials	8	112,195
Unknown or miscellaneous	31	344,325
Miscellaneous		
Total	**8**	**30,682**
Spark or ember	—	—
Electrical spark	—	—
Static electrical spark	—	—
Direct flame	3	—
Friction heat	—	—
Hot object	2	26,427
Spontaneous ignition	1	350
Heat-smokers' materials	—	—
Unknown or miscellaneous	2	3,905

Table 23

Fire Losses by Area of Origin of Fire, According to Property Classification, Saskatchewan, 1984

Area of origin of fire	Number of fires	Percent	Dollar loss	Percent
All property classifications				
Total	**2,789**	**100.00%**	**$35,469,311**	**100.00%**
Means of egress	32	1.15	412,288	1.16
Assembly, sales area	126	4.52	1,516,044	4.27
Function area	655	23.49	9,993,050	28.17
Storage area	179	6.42	3,753,520	10.58
Service facility	68	2.44	694,090	1.96
Service and equipment area	97	3.48	8,296,533	23.39
Structural area	124	4.45	5,096,660	14.37
Vehicle area	20	0.72	87,742	0.25
Outside area	246	8.82	1,496,538	4.22
Special property*	1,242	44.53	4,122,846	11.62
Assembly				
Total	**30**	**1.08**	**3,129,042**	**8.82**
Means of egress	2	0.07	17,933	0.05
Assembly, sales area	2	0.07	1,236	0.00
Function area	15	0.54	1,409,187	3.97
Storage area	4	0.14	1,191,936	3.36
Service facility	1	0.04	—	—
Service and equipment area	1	0.04	105,659	0.30
Structural area	3	0.11	402,091	1.13
Vehicle area	—	—	—	—
Outside area	2	0.07	1,000	0.00
Institutional				
Total	**16**	**0.57**	**541,998**	**1.53**
Means of egress	1	0.04	—	—
Assembly, sales area	1	0.04	500	0.00
Function area	10	0.36	41,497	0.12
Storage area	1	0.04	—	—
Service facility	—	—	—	—
Service and equipment area	2	0.07	500,000	1.41
Structural area	1	0.04	1	0.00
Vehicle area	—	—	—	—
Outside area	—	—	—	—

Table 23 (continued)

Fire Losses by Area of Origin of Fire, According to Property Classification, Saskatchewan, 1984

Area of origin of fire	Number of fires	Percent	Dollar loss	Percent
Residential				
Total	**958**	**34.35%**	**$11,450,766**	**32.28%**
Means of egress	26	0.93	392,353	1.11
Assembly, sales area	120	4.30	1,129,308	3.18
Function area	517	18.54	5,749,590	16.21
Storage area	41	1.47	745,235	2.10
Service facility	58	2.08	558,884	1.58
Service and equipment area	59	2.12	901,548	2.54
Structural area	70	2.51	1,239,268	3.49
Vehicle area	13	0.47	61,498	0.17
Outside area	54	1.94	673,082	1.90
Business and personal service				
Total	**10**	**0.36**	**328,052**	**0.92**
Means of egress	2	0.07	2	0.00
Assembly, sales area	—	—	—	—
Function area	3	0.11	267,515	0.75
Storage area	2	0.07	11,970	0.03
Service facility	—	—	—	—
Service and equipment area	1	0.04	2,500	0.01
Structural area	1	0.04	45,485	0.13
Vehicle area	—	—	—	—
Outside area	1	0.04	580	0.00
Mercantile				
Total	**67**	**2.40**	**2,608,201**	**7.35**
Means of egress	1	0.04	2,000	0.01
Assembly, sales area	3	0.11	385,000	1.09
Function area	19	0.68	528,702	1.49
Storage area	11	0.39	180,205	0.51
Service facility	5	0.18	122,508	0.35
Service and equipment area	14	0.50	811,885	2.29
Structural area	9	0.32	533,799	1.50
Vehicle area	1	0.04	2,238	0.01
Outside area	4	0.14	41,864	0.12

Table 23 (continued)

Fire Losses by Area of Origin of Fire, According to Property Classification, Saskatchewan, 1984

Area of origin of fire	Number of fires	Percent	Dollar loss	Percent
Industrial manufacturing				
Total	**28**	**1.00%**	**$ 4,256,739**	**12.00%**
Means of egress	—	—	—	—
Assembly, sales area	—	—	—	—
Function area	11	0.39	251,247	0.71
Storage area	5	0.18	885,442	2.50
Service facility	1	0.04	—	—
Service and equipment area	6	0.22	3,007,525	8.48
Structural area	4	0.14	92,002	0.26
Vehicle area	1	0.04	20,523	0.06
Outside area	—	—	—	—
Industrial storage				
Total	**181**	**6.49**	**6,260,972**	**17.65**
Means of egress	—	—	—	—
Assembly, sales area	—	—	—	—
Function area	21	0.75	321,141	0.91
Storage area	79	2.83	387,007	1.09
Service facility	2	0.07	9,567	0.03
Service and equipment area	4	0.14	2,632,659	7.42
Structural area	18	0.65	2,621,239	7.39
Vehicle area	4	0.14	3,105	0.01
Outside area	53	1.90	286,254	0.81
Miscellaneous				
Total	**257**	**9.21**	**2,770,695**	**7.81**
Means of egress	—	—	—	—
Assembly, sales area	—	—	—	—
Function area	59	2.12	1,424,171	4.02
Storage area	36	1.29	351,725	0.99
Service facility	1	0.04	3,131	0.01
Service and equipment area	10	0.36	334,757	0.94
Structural area	18	0.65	162,775	0.46
Vehicle area	1	0.04	378	0.00
Outside area	132	4.73	493,758	1.39
Special property*				
Total	**1,242**	**44.53**	**4,122,846**	**11.62**

Note: The sums of individual items may not always equal the totals due to rounding.
*This category includes automobiles and outdoor property; piers; wharves; structures vacant or under construction; watercraft; rail transport equipment; ground transport vehicles; aircraft; special vehicles; etc.

Table 24

Fire Losses by Act or Omission, According to Property Classification, Saskatchewan, 1984

Act or omission	Number of fires	Percent	Dollar loss	Percent
All property classifications				
Total	**2,789**	**100.00%**	**$35,469,311**	**100.00%**
Incendiary or set fires	118	4.23	6,129,089	17.28
Misuse of source of ignition	434	15.56	3,629,076	10.23
Misuse of material ignited	126	4.52	1,174,806	3.31
Mechanical failure	1,093	39.19	7,761,335	21.88
Design deficiency	55	1.97	774,660	2.18
Misuse of equipment	15	0.54	162,042	0.46
Human failing	153	5.49	869,349	2.45
Vehicle accident	28	1.00	97,264	0.27
Miscellaneous	767	27.50	14,871,690	41.93
Assembly				
Total	**30**	**1.08**	**3,123,042**	**8.82**
Incendiary or set fires	5	0.18	1,735,281	4.89
Misuse of source of ignition	8	0.29	125,862	0.35
Misuse of material ignited	1	0.04	1,000	0.00
Mechanical failure	4	0.14	432,422	1.22
Design deficiency	1	0.04	1	0.00
Misuse of equipment	—	—	—	—
Human failing	1	0.04	4,500	0.01
Vehicle accident	—	—	—	—
Miscellaneous	10	0.36	829,976	2.34
Institutional				
Total	**16**	**0.57**	**541,998**	**1.53**
Incendiary or set fires	3	0.11	521,200	1.47
Misuse of source of ignition	6	0.22	4,097	0.01
Misuse of material ignited	1	0.04	—	—
Mechanical failure	3	0.11	16,100	0.05
Design deficiency	—	—	—	—
Misuse of equipment	—	—	—	—
Human failing	3	0.11	601	0.00
Vehicle accident	—	—	—	—
Miscellaneous	—	—	—	—

Table 24 (continued)

Fire Losses by Act or Omission, According to Property Classification, Saskatchewan, 1984

Act or omission	Number of fires	Percent	Dollar loss	Percent
Residential				
Total	**958**	**34.35%**	**$11,450,766**	**32.28%**
Incendiary or set fires	38	1.36	556,644	1.57
Misuse of source of ignition	214	7.67	1,446,185	4.08
Misuse of material ignited	78	2.80	599,262	1.69
Mechanical failure	234	8.39	3,024,768	8.53
Design deficiency	40	1.43	553,823	1.56
Misuse of equipment	6	0.22	17,283	0.05
Human failing	137	4.91	845,735	2.38
Vehicle accident	—	—	—	—
Miscellaneous	211	7.57	4,407,066	12.43
Business and personal service				
Total	**10**	**0.36**	**328,052**	**0.92**
Incendiary or set fires	3	0.11	206,184	0.58
Misuse of source of ignition	1	0.04	2,500	0.01
Misuse of material ignited	—	—	—	—
Mechanical failure	—	—	—	—
Design deficiency	—	—	—	—
Misuse of equipment	—	—	—	—
Human failing	—	—	—	—
Vehicle accident	—	—	—	—
Miscellaneous	6	0.22	119,368	0.34
Mercantile				
Total	**67**	**2.40**	**2,608,201**	**7.35**
Incendiary or set fires	6	0.22	184,001	0.52
Misuse of source of ignition	10	0.36	68,578	0.19
Misuse of material ignited	3	0.11	69,555	0.20
Mechanical failure	27	0.97	1,414,042	3.99
Design deficiency	3	0.11	198,000	0.56
Misuse of equipment	—	—	—	—
Human failing	3	0.11	1,202	0.00
Vehicle accident	—	—	—	—
Miscellaneous	15	0.54	672,823	1.90

Table 24 (continued)

Fire Losses by Act or Omission, According to Property Classification, Saskatchewan, 1984

Act or omission	Number of fires	Percent	Dollar loss	Percent
Industrial manufacturing				
Total	**28**	**1.00%**	**$ 4,256,739**	**12.00%**
Incendiary or set fires	1	0.04	183,915	0.52
Misuse of source of ignition	6	0.22	1,216,847	3.43
Misuse of material ignited	—	—	—	—
Mechanical failure	5	0.18	2,605	0.01
Design deficiency	2	0.07	1,174	0.00
Misuse of equipment	1	0.04	8,298	0.02
Human failing	1	0.04	460	0.00
Vehicle accident	—	—	—	—
Miscellaneous	12	0.43	2,843,440	8.02
Industrial storage				
Total	**181**	**6.49**	**6,260,972**	**17.65**
Incendiary or set fires	12	0.43	2,623,282	7.40
Misuse of source of ignition	50	1.79	315,766	0.89
Misuse of material ignited	10	0.36	103,752	0.29
Mechanical failure	25	0.90	139,401	0.39
Design deficiency	4	0.14	9,451	0.03
Misuse of equipment	1	0.04	1	0.00
Human failing	3	0.11	2	0.00
Vehicle accident	—	—	—	—
Miscellaneous	76	2.72	3,069,317	8.65
Special property				
Total	**1,242**	**44.53**	**4,122,846**	**11.62**
Incendiary or set fires	46	1.65	107,982	0.30
Misuse of source of ignition	65	2.33	179,747	0.51
Misuse of material ignited	19	0.68	144,846	0.41
Mechanical failure	758	27.18	2,169,590	6.12
Design deficiency	2	0.07	1,900	0.01
Misuse of equipment	5	0.18	11,279	0.03
Human failing	3	0.11	5,852	0.02
Vehicle accident	26	0.93	85,760	0.24
Miscellaneous	318	11.40	1,415,890	3.99

Table 24 (continued)

Fire Losses by Act or Omission, According to Property Classification, Saskatchewan, 1984

Act or omission	Number of fires	Percent	Dollar loss	Percent
Miscellaneous				
Total	**257**	**9.21%**	**$ 2,770,695**	**7.81%**
Incendiary or set fires	4	0.14	10,600	0.03
Misuse of source of ignition	74	2.65	269,494	0.76
Misuse of material ignited	14	0.50	256,391	0.72
Mechanical failure	37	1.33	562,407	1.59
Design deficiency	3	0.11	10,311	0.03
Misuse of equipment	2	0.07	125,181	0.35
Human failing	2	0.07	10,997	0.03
Vehicle accident	2	0.07	11,504	0.03
Miscellaneous	119	4.27	1,513,810	4.27

Note: The sums of individual items may not always equal the totals due to rounding.

Table 25

Fire Losses by Source of Heat of Ignition, According to Property Classification, Saskatchewan, 1984

Source of heat of ignition	Number of fires	Percent	Dollar loss	Percent
All property classifications				
Total	**2,789**	**100.00%**	**$35,469,311**	**100.00%**
Heating equipment	242	8.68	2,975,593	8.39
Cooking equipment	223	8.00	1,059,407	2.99
Smokers' materials	162	5.81	1,665,929	4.70
Electrical distribution equipment	444	15.92	3,063,001	8.64
Electrical appliances	74	2.65	1,035,251	2.92
Other appliances	287	10.29	1,285,165	3.62
Open flames	259	9.29	5,234,991	14.76
Exposure	198	7.10	1,685,372	4.75
Miscellaneous	900	32.27	17,464,602	49.24
Assembly				
Total	**30**	**1.08**	**3,129,042**	**8.82**
Heating equipment	1	0.04	1	0.00
Cooking equipment	6	0.22	26,036	0.07
Smokers' materials	3	0.11	191,235	0.54
Electrical distribution equipment	1	0.04	396,000	1.12
Electrical appliances	—	—	—	—
Other appliances	1	0.04	1,000	0.00
Open flames	7	0.25	865,564	2.44
Exposure	—	—	—	—
Miscellaneous	11	0.39	1,649,206	4.65
Institutional				
Total	**16**	**0.57**	**541,998**	**1.53**
Heating equipment	—	—	—	—
Cooking equipment	1	0.04	1,161	0.00
Smokers' materials	6	0.22	503,100	1.42
Electrical distribution equipment	—	—	—	—
Electrical appliances	2	0.07	100	0.00
Other appliances	1	0.04	16,000	0.05
Open flames	5	0.18	21,637	0.06
Exposure	—	—	—	—
Miscellaneous	1	0.04	—	—

Table 25 (continued)

Fire Losses by Source of Heat of Ignition, According to Property Classification, Saskatchewan, 1984

Source of heat of ignition	Number of fires	Percent	Dollar loss	Percent
Residential				
Total	**958**	**34.35%**	**$11,450,766**	**32.28%**
Heating equipment	179	6.42	2,106,990	5.94
Cooking equipment	200	7.17	1,016,555	2.87
Smokers' materials	115	4.12	861,787	2.43
Electrical distribution equipment	75	2.69	1,095,396	3.09
Electrical appliances	39	1.40	738,364	2.08
Other appliances	39	1.40	417,176	1.18
Open flames	116	4.16	988,416	2.79
Exposure	28	1.00	544,884	1.54
Miscellaneous	167	5.99	3,681,198	10.38
Business and personal service				
Total	**10**	**0.36**	**328,052**	**0.92**
Heating equipment	—	—	—	—
Cooking equipment	—	—	—	—
Smokers' materials	—	—	—	—
Electrical distribution equipment	—	—	—	—
Electrical appliances	—	—	—	—
Other appliances	—	—	—	—
Open flames	3	0.11	206,184	0.58
Exposure	3	0.11	48,565	0.14
Miscellaneous	4	0.14	73,303	0.21
Mercantile				
Total	**67**	**2.40**	**2,608,201**	**7.35**
Heating equipment	9	0.32	464,627	1.31
Cooking equipment	1	0.04	292	0.00
Smokers' materials	3	0.11	41,462	0.12
Electrical distribution equipment	11	0.39	619,473	1.75
Electrical appliances	4	0.14	188,540	0.53
Other appliances	11	0.39	316,990	0.89
Open flames	9	0.32	67,862	0.19
Exposure	1	0.04	90,000	0.25
Miscellaneous	18	0.65	818,955	2.31

Table 25 (continued)

Fire Losses by Source of Heat of Ignition, According to Property Classification, Saskatchewan, 1984

Source of heat of ignition	Number of fires	Percent	Dollar loss	Percent
Industrial manufacturing				
Total	**28**	**1.00%**	**$ 4,256,739**	**12.00%**
Heating equipment	1	0.04	1,174	0.00
Cooking equipment	1	0.04	8,298	0.02
Smokers' materials	—	—	—	—
Electrical distribution equipment	2	0.07	3	0.00
Electrical appliances	—	—	—	—
Other appliances	—	—	—	—
Open flames	5	0.18	1,036,649	2.92
Exposure	1	0.04	180,308	0.51
Miscellaneous	18	0.65	3,030,307	8.54
Industrial storage				
Total	**181**	**6.49**	**6,260,972**	**17.65**
Heating equipment	18	0.65	71,488	0.20
Cooking equipment	6	0.22	1,404	0.00
Smokers' materials	4	0.14	300	0.00
Electrical distribution equipment	11	0.39	138,792	0.39
Electrical appliances	2	0.07	7,460	0.02
Other appliances	3	0.11	9,863	0.03
Open flames	34	1.22	1,528,044	4.31
Exposure	38	1.36	195,593	0.55
Miscellaneous	65	2.33	4,308,028	12.15
Special property				
Total	**1,242**	**44.53**	**4,122,846**	**11.62**
Heating equipment	18	0.65	66,656	0.19
Cooking equipment	1	0.04	2,352	0.01
Smokers' materials	24	0.86	45,355	0.13
Electrical distribution equipment	319	11.44	662,352	1.87
Electrical appliances	17	0.61	55,777	0.16
Other appliances	228	8.17	514,507	1.45
Open flames	48	1.72	128,907	0.36
Exposure	58	2.08	278,366	0.78
Miscellaneous	529	18.97	2,368,574	6.68

Table 25 (continued)

Fire Losses by Source of Heat of Ignition, According to Property Classification, Saskatchewan, 1984

Source of heat of ignition	Number of fires	Percent	Dollar loss	Percent
Miscellaneous				
Total	**257**	**9.21%**	**$ 2,770,695**	**7.81%**
Heating equipment	16	0.57	264,657	0.75
Cooking equipment	7	0.25	3,309	0.01
Smokers' materials	7	0.25	22,690	0.06
Electrical distribution equipment	25	0.90	150,985	0.43
Electrical appliances	10	0.36	45,010	0.13
Other appliances	4	0.14	9,629	0.03
Open flames	32	1.15	391,728	1.10
Exposure	69	2.47	347,656	0.98
Miscellaneous	87	3.12	1,535,031	4.33

Note: The sums of individual items may not always equal totals due to rounding.

Table 26

Fire Losses by Material First Ignited, According to Property Classification, Saskatchewan, 1984

Material first ignited	Number of fires	Percent	Dollar loss	Percent
All property classifications				
Total	**2,789**	**100.00%**	**$35,469,311**	**100.00%**
Building materials	286	10.25	7,148,866	20.16
Furnishings	187	6.70	1,009,570	2.85
Clothing, textiles	80	2.87	698,999	1.97
Wood, paper products	171	6.13	2,820,476	7.95
Flammable liquids	407	14.59	2,904,640	8.19
Flammable gases	58	2.08	602,547	1.70
Chemicals	61	2.19	1,204,359	3.40
Agricultural, forestry products	225	8.07	1,251,351	3.53
Miscellaneous	1,314	47.11	17,828,503	50.26
Assembly				
Total	**30**	**1.08**	**3,129,042**	**8.82**
Building materials	3	0.11	23,059	0.07
Furnishings	1	0.04	—	—
Clothing, textiles	1	—	—	—
Wood, paper products	6	0.22	849,830	2.40
Flammable liquids	6	0.22	950,036	2.68
Flammable gases	3	0.11	1,001	0.00
Chemicals	—	—	—	—
Agricultural, forestry products	—	—	—	—
Miscellaneous	11	0.39	1,305,116	3.68
Institutional				
Total	**16**	**0.57**	**541,998**	**1.53**
Building materials	2	0.07	1	0.00
Furnishings	6	0.22	24,735	0.07
Clothing, textiles	—	—	—	—
Wood, paper products	3	0.11	500,001	1.41
Flammable liquids	—	—	—	—
Flammable gases	—	—	—	—
Chemicals	—	—	—	—
Agricultural, forestry products	1	0.04	16,000	0.05
Miscellaneous	4	0.14	1,261	0.00

Table 26 (continued)

Fire Losses by Material First Ignited, According to Property Classification, Saskatchewan, 1984

Material first ignited	Number of fires	Percent	Dollar loss	Percent
Residential				
Total	**958**	**34.35%**	**$11,450,766**	**32.28%**
Building materials	173	6.20	2,700,768	7.61
Furnishings	150	5.38	946,026	2.67
Clothing, textiles	54	1.94	445,151	1.26
Wood, paper products	88	3.16	910,723	2.57
Flammable liquids	155	5.56	1,056,843	2.98
Flammable gases	23	0.82	319,514	0.90
Chemicals	15	0.54	25,633	0.07
Agricultural, forestry products	15	0.54	101,399	0.29
Miscellaneous	285	10.22	4,944,709	13.94
Business and personal service				
Total	**10**	**0.36**	**328,052**	**0.92**
Building materials	3	0.11	48,565	0.14
Furnishings	—	—	—	—
Clothing, textiles	—	—	—	—
Wood, paper products	3	0.11	206,184	0.58
Flammable liquids	—	—	—	—
Flammable gases	—	—	—	—
Chemicals	—	—	—	—
Agricultural, forestry products	—	—	—	—
Miscellaneous	4	0.14	73,303	0.21
Mercantile				
Total	**67**	**2.40**	**2,608,201**	**7.35**
Building materials	13	0.47	1,104,332	3.11
Furnishings	1	0.04	1	0.00
Clothing, textiles	4	0.14	213,250	0.60
Wood, paper products	7	0.25	269,888	0.76
Flammable liquids	9	0.32	118,566	0.33
Flammable gases	4	0.14	131,243	0.37
Chemicals	1	0.04	300	0.00
Agricultural, forestry products	3	0.11	8,893	0.03
Miscellaneous	25	0.90	761,728	2.15

Table 26 (continued)

Fire Losses by Material First Ignited, According to Property Classification, Saskatchewan, 1984

Material first ignited	Number of fires	Percent	Dollar loss	Percent
Industrial manufacturing				
Total	**28**	**1.00%**	**$ 4,256,739**	**12.00%**
Building materials	2	0.07	1,175	0.00
Furnishings	—	—	—	—
Clothing, textiles	—	—	—	—
Wood, paper products	3	0.11	12,001	0.03
Flammable liquids	3	0.11	8,648	0.02
Flammable gases	—	—	—	—
Chemicals	4	0.14	1,006,001	2.84
Agricultural, forestry products	1	0.04	180,308	0.51
Miscellaneous	15	0.54	3,048,606	8.60
Industrial storage				
Total	**181**	**6.49**	**6,260,972**	**17.65**
Building materials	28	1.00	2,757,129	7.77
Furnishings	4	0.14	824	0.00
Clothing, textiles	3	0.11	850	0.00
Wood, paper products	18	0.65	24,742	0.07
Flammable liquids	12	0.43	29,833	0.08
Flammable gases	1	0.04	8,400	0.02
Chemicals	—	—	—	—
Agricultural, forestry products	32	1.15	164,337	0.46
Miscellaneous	83	2.98	3,274,857	9.23
Special property				
Total	**1,242**	**44.53**	**4,122,846**	**11.62**
Building materials	27	0.97	128,120	0.36
Furnishings	25	0.90	37,984	0.11
Clothing, textiles	16	0.57	34,186	0.10
Wood, paper products	23	0.82	25,531	0.07
Flammable liquids	212	7.60	484,776	1.37
Flammable gases	19	0.68	126,371	0.36
Chemicals	40	1.43	168,331	0.47
Agricultural, forestry products	89	3.19	356,399	1.00
Miscellaneous	791	28.36	2,761,148	7.78

Table 26 (continued)

Fire Losses by Material First Ignited, According to Property Classification, Saskatchewan, 1984

Material first ignited	Number of fires	Percent	Dollar loss	Percent
Miscellaneous				
Total	**257**	**9.21%**	**$ 2,770,695**	**7.81%**
Building materials	35	1.25	385,717	1.09
Furnishings	—	—	—	—
Clothing, textiles	3	0.11	5,562	0.02
Wood, paper products	20	0.72	21,576	0.06
Flammable liquids	10	0.36	255,938	0.72
Flammable gases	8	0.29	16,018	0.05
Chemicals	1	0.04	4,094	0.01
Agricultural, forestry products	84	3.01	424,015	1.20
Miscellaneous	96	3.44	1,657,775	4.67

Note: The sums of individual items may not always equal the totals due to rounding.

Table 27

Fire Losses by Fuel or Energy, According to Property Classification, Saskatchewan, 1984

Fuel or energy	Number of fires	Percent	Dollar loss	Percent
All property classifications				
Total	**2,789**	**100.00%**	**$35,469,311**	**100.00%**
Coal, wood	448	16.06	6,563,533	18.50
Fuel oil	83	2.98	1,067,169	3.01
Gasoline	270	9.68	1,279,846	3.61
Natural gas	51	1.83	695,221	1.96
Propane, etc.	60	2.15	578,190	1.63
Smokers' materials	240	8.61	2,063,254	5.82
Electricity	738	26.46	7,299,246	20.58
Lightning	36	1.29	1,489,120	4.20
Unclassified	79	2.83	1,810,299	5.10
Unknown	784	28.11	12,623,433	35.59
Assembly				
Total	**30**	**1.08**	**3,129,042**	**8.82**
Coal, wood	9	0.32	886,253	2.50
Fuel oil	1	0.04	1,000	0.00
Gasoline	1	0.04	190,000	0.54
Natural gas	2	0.07	4,500	0.01
Propane, etc.	1	0.04	1	0.00
Smokers' materials	4	0.14	743,171	2.10
Electricity	3	0.11	411,000	1.16
Lightning	—	—	—	—
Unclassified	1	0.04	1	0.00
Unknown	8	0.29	893,116	2.52
Institutional				
Total	**16**	**0.57**	**541,998**	**1.53**
Coal, wood	2	0.07	500,000	1.41
Fuel oil	—	—	—	—
Gasoline	—	—	—	—
Natural gas	1	0.04	16,000	0.05
Propane, etc.	—	—	—	—
Smokers' materials	8	0.29	24,736	0.07
Electricity	4	0.14	1,262	0.00
Lightning	—	—	—	—
Unclassified	—	—	—	—
Unknown	1	0.04	—	—

Table 27 (continued)

Fire Losses by Fuel or Energy, According to Property Classification, Saskatchewan, 1984

Fuel or energy	Number of fires	Percent	Dollar loss	Percent
Residential				
Total	**958**	**34.35%**	**$11,450,766**	**32.28%**
Coal, wood	182	6.53	2,228,289	6.28
Fuel oil	36	1.29	473,397	1.33
Gasoline	16	0.57	325,966	0.92
Natural gas	39	1.40	217,235	0.61
Propane, etc.	34	1.22	429,795	1.21
Smokers' materials	164	5.88	952,548	2.69
Electricity	303	10.86	2,831,398	7.98
Lightning	6	0.22	105,499	0.30
Unclassified	24	0.86	305,357	0.86
Unknown	154	5.52	3,581,282	10.10
Business and personal service				
Total	**10**	**0.36**	**328,052**	**0.92**
Coal, wood	5	0.18	209,264	0.59
Fuel oil	—	—	—	—
Gasoline	—	—	—	—
Natural gas	—	—	—	—
Propane, etc.	—	—	—	—
Smokers' materials	—	—	—	—
Electricity	—	—	—	—
Lightning	—	—	—	—
Unclassified	2	0.07	970	0.00
Unknown	3	0.11	117,818	0.33
Mercantile				
Total	**67**	**2.40**	**2,608,201**	**7.35**
Coal, wood	8	0.29	273,496	0.77
Fuel oil	2	0.07	12,217	0.03
Gasoline	6	0.22	54,216	0.15
Natural gas	6	0.22	453,602	1.28
Propane, etc.	—	—	—	—
Smokers' materials	8	0.29	253,464	0.71
Electricity	23	0.82	996,941	2.81
Lightning	—	—	—	—
Unclassified	1	0.04	292	0.00
Unknown	13	0.47	563,973	1.59

Table 27 (continued)

Fire Losses by Fuel or Energy, According to Property Classification, Saskatchewan, 1984

Fuel or energy	Number of fires	Percent	Dollar loss	Percent
Industrial manufacturing				
Total	**28**	**1.00%**	**$ 4,256,739**	**12.00%**
Coal, wood	7	0.25	887,361	2.50
Fuel oil	—	—	—	—
Gasoline	—	—	—	—
Natural gas	2	0.07	1,174	0.00
Propane, etc.	2	0.07	26,523	0.07
Smokers' materials	1	0.04	—	—
Electricity	5	0.18	2,000,354	5.64
Lightning	—	—	—	—
Unclassified	2	0.07	23,305	0.07
Unknown	9	0.32	1,318,022	3.72
Industrial storage				
Total	**181**	**6.49**	**6,260,972**	**17.65**
Coal, wood	67	2.40	582,848	1.64
Fuel oil	6	0.22	30,090	0.08
Gasoline	10	0.36	38,256	0.11
Natural gas	—	—	—	—
Propane, etc.	6	0.22	14,942	0.04
Smokers' materials	11	0.39	9,121	0.03
Electricity	19	0.68	103,037	0.29
Lightning	7	0.25	1,322,862	3.73
Unclassified	9	0.32	1,309,141	3.69
Unknown	46	1.65	2,850,675	8.04
Special property				
Total	**1,242**	**44.53**	**4,122,846**	**11.62**
Coal, wood	85	3.05	446,190	1.26
Fuel oil	32	1.15	194,568	0.55
Gasoline	231	8.28	664,431	1.87
Natural gas	—	—	—	—
Propane, etc.	8	0.29	20,341	0.06
Smokers' materials	26	0.93	44,479	0.13
Electricity	346	12.41	728,421	2.05
Lightning	7	0.25	34,650	0.10
Unclassified	32	1.15	121,197	0.34
Unknown	475	17.03	1,868,569	5.27

Table 27 (continued)

Fire Losses by Fuel or Energy, According to Property Classification, Saskatchewan, 1984

Fuel or energy	Number of fires	Percent	Dollar loss	Percent
Miscellaneous				
Total	**257**	**9.21%**	**$ 2,770,695**	**7.81%**
Coal, wood	83	2.98	549,832	1.55
Fuel oil	6	0.22	355,897	1.00
Gasoline	6	0.22	6,977	0.02
Natural gas	1	0.04	2,710	0.01
Propane, etc.	9	0.32	86,588	0.24
Smokers' materials	18	0.65	35,735	0.10
Electricity	35	1.25	226,833	0.64
Lightning	16	0.57	26,109	0.07
Unclassified	8	0.29	50,036	0.14
Unknown	75	2.69	1,429,978	4.03

Note: The sums of individual items may not always equal the totals due to rounding.

Table 28

Number of Fire Fatalities by Age and Sex, Saskatchewan, 1984

	Total fatalities	Age groups						
		0-5	6-15	16-18	19-39	40-64	65 and over	Un-known
Total	**26**	**6**	**2**	**—**	**8**	**6**	**4**	**—**
Total children	**8**	**6**	**2**	**—**	**—**	**—**	**—**	**—**
Male	7	5	2	—	—	—	—	—
Female	1	1	—	—	—	—	—	—
Total adults	**18**	**—**	**—**	**—**	**8**	**6**	**4**	**—**
Male	12	—	—	—	7	4	1	—
Female	6	—	—	—	1	2	3	—

Table 29

Number of Fire Injuries by Age and Sex, Saskatchewan, 1984

	Total injuries	Age groups						
		0-5	6-15	16-18	19-39	40-64	65 and over	Un-known
Total	**73**	**8**	**3**	**1**	**37**	**22**	**2**	**—**
Total children	**12**	**8**	**3**	**1**	**—**	**—**	**—**	**—**
Male	9	6	3	—	—	—	—	—
Female	3	2	—	1	—	—	—	—
Total adults	**61**	**—**	**—**	**—**	**37**	**22**	**2**	**—**
Male	43	—	—	—	28	14	1	—
Female	18	—	—	—	9	8	1	—

Table 30

Fire Deaths and Injuries Due to Careless Use, of Flammable Liquids, Saskatchewan, 1975 — 1984

Year	Total deaths	Deaths due to careless use of flammable liquids	Total injuries	Injuries due to careless use of flammable liquids
Ten-year average	**34**	**4**	**44**	**14**
1975	26	2	28	17
1976	31	2	48	20
1977	33	12	29	12
1978	41	8	46	11
1979	46	1	39	11
1980	39	8	34	9
1981	32	2	65	10
1982	40	3	35	9
1983	30	—	46	21
1984	26	4	73	24

Table 31

Fire Fatalities by Time of Day, Saskatchewan, 1984

Time of day	Total	Men	Women	Children
Total	**26**	**12**	**6**	**8**
12 a.m.-6 a.m.	9	4	1	4
6 a.m.-12 p.m.	7	4	3	—
12 p.m.-6 p.m.	6	3	1	2
6 p.m.-12 p.m.	4	1	1	2
Unknown	—	—	—	—

Table 32

Circumstances Contributing to Fire Casualties, Saskatchewan, 1984

Circumstances	Number of fatalities	Number of injuries
Condition of casualty at time of fire		
Total	**26**	**73**
Not applicable	—	24
Asleep at time of fire	15	15
Bedridden or other physical or mental handicap	2	—
Impaired by alcohol	6	7
Impaired by drugs	—	—
Under restraint or detention	—	—
Too young to act	1	6
Senile	—	—
Left unattended (children)	1	—
Unclassified or unknown	1	21
Action of casualty at time of fire		
Total	**26**	**73**
Not applicable	6	16
Injured while trying to escape	5	18
Overexertion, heart attack, etc.	—	—
Voluntarily entered or remained for rescue	—	4
Voluntarily entered or remained for firefighting	—	5
Voluntarily entered or remained to save property	—	5
Loss of judgement, panic	—	3
Received delayed warning	2	7
Unclassifed or unknown	13	15
Ignition of clothing or other fabrics		
Total	**26**	**73**
Not applicable	12	37
Outer clothing	1	17
Sleepwear	—	—
Underclothing	—	1
Costume	—	—
Bedding and bed linen	2	3
Mattress or pillow	1	1
Upholstered furniture	1	5
Unclassified or unknown	9	9

Table 32 (continued)

Circumstances Contributing to Fire Casualties, Saskatchewan, 1984

Circumstances	Number of fatalities	Number of injuries
Type of fabric or material ignited		
Total	**26**	**73**
Not applicable	11	39
Cotton	1	5
Wool	—	—
Other natural fibre	—	—
Rayon (viscose)	1	—
Other synthetic fibre	1	—
Mixture of fibres	2	11
Rubber	—	—
Plastic foam	—	—
Unclassified or unknown	10	18
Cause of failure to escape		
Total	**26**	**73**
Not applicable	1	30
Trapped by rapid spread of fire/smoke through vertical openings, stairways or elevators	—	2
Trapped by rapid spread of fire/smoke through horizontal openings	4	3
High flame spread of combustible interior finish of walls, ceilings or floors	3	1
Building collapse	—	—
Falling debris	—	—
Explosion	—	13
Exit blocked or obstructed by fire	1	—
Outdoor fire (includes forest and brush)	—	2
Unclassified or unknown	17	22

Oil Burners

The Fire Prevention Act and regulations thereunder require that distributors and wholesalers of oil burners obtain an annual licence and that firms or persons installing and servicing oil-burning equipment take out an annual or quinquennial licence as authorized by the Fire Commissioner for such work. The number of licences issued during the fiscal year ended March 31, 1985 and during each of the previous nine years is shown in Table 33. The number of oil burner installation permits issued, as required by the regulations, is also shown in Table 33. During the fiscal year 1984-85, 311 oil burner inspections were made.

Table 33

Oil Burner Licences and Permits Issued under *The Fire Prevention Act*, Saskatchewan, 1975-76 — 1984-85.

Type of licence or permit	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85
Total oil burner licences	**204**	**171**	**163**	**121**	**119**	**180**	**129**	**109**	**94**	**88**
Wholesalers' or manufacturers' (annual) ...	11	11	11	10	11	11	12	11	11	12
Installers' (annual) ...	86	81	56	45	49	51	42	41	34	27
Installers' (quinquennial) ...	107	79	96	66	59	118	75	57	49	49
Total oil burner permits (annual)	**208**	**226**	**273**	**203**	**208**	**166**	**106**	**71**	**16**	**10**

Note: The number of licensed oil burner installers in Saskatchewan in 1984-85 was 380.

Special Fire Safety Program

In June a new provincial fire prevention program based on the theme "Think Safety - Prevent Fires" was implemented. Communications personnel of the Fire Commissioner's Unit undertook a number of educational and safety promotional activities. Two specially designed vehicles were obtained for the program. The vehicles contain films, displays and firefighting equipment.

The program staff presented exhibits at parades and other events and participated in exhibitions and fairs in Saskatoon, Prince Albert, Regina, Unity, Meadow Lake, Shellbrook, Weyburn, Melfort, Rosetown, Estevan, Central Butte, Rosthern, Nipawin and Moose Jaw.

In September, the staff, accompanied by the program mascot, "Sparky", the fire prevention dalmation, commenced fire safety presentations in the schools. By the end of March 1985, the program had been presented in 119 schools and had been attended by 2,759 students and teachers and 1,858 other interested persons including parents, council members, M.L.A.'s and volunteer firefighters.